

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit Examiner

In re Application of: LLOYD M. SMITH ET AL

Case No.

148-120CIP3

Serial No.:

106,013232

Filed:

10/7/87

For:

AUTOMATED DNA SEQUENCING TECHNIQUE

COMMISSIONER OF PATENTS AND TRADEMARKS

WASHINGTON, D.C. 20231

SIR:

PETITION AND AMENDMENT UNDER RULE 48

Applicants herey petition to amend above-identified patent application to correct the inventorship by adding the name of Charles R. Connell, a U.S. citizen, residing at 167 King St., Redwood City, CA 94062, to the list of inventors.

A verified STATEMENT OF FACTS under Rule 48 that is signed by all of the originally named inventors is attached hereto explaining the circumustances of the Also included is a new error in inventorship. corrected declaration of inventorship signed by all of the inventors including Charles R. Connell, and a letter approving the change of inventorship signed by named assignee, the California originally Institute of Technology.

Please charge the required fee of \$140.00 and any other fees to deposit acct. 10-1218.

> Respectfully submitted LLOYD M. SMITH, ET AL

By

eph/H. Smith

Reg. 30.328



IN THE PATENT AND TRADEMARK OFFICE

Art Unit Examiner

In re Application of: LLOYD M. SMITH ET AL

Case No.

148-120CIP3

Serial No.:

106,013

Filed:

10/7/87

For:

AUTOMATED DNA SEQUENCING TECHNIQUE

COMMISSIONER OF PATENTS AND TRADEMARKS WASHINGTON, D.C. 20231

SIR:

Approval by Assignee For Change Of Inventorship Under 37 C.F.R. 1.48

The California Institute of Technololgy, the originally named assignee of the above identified patent application, is fully aware of the request for change of inventorship, and that the corrected inventorship includes Lloyd M. Smith, Leroy E. Hood, Michael W. Hunkapiller, Tim J. Hunkapiller, and Charles R. Connell. The California Institute of Technology approves of this change in inventorship.

Respectfully submitted

David W. Morrisroe

Vice President for Business and Finance and Treasurer California Institute of Technology



Art Unit 128 Examiner C. Nucker

In re Application of: LLOYD M. SMITH ET AL

Case No. 148-120CIP3

Serial No.: 106,013 Filed: 10/7/87

For: AUTOMATED DNA SEQUENCING TECHNIQUE

STATEMENT OF FACTS UNDER RULE 48

The above-identified patent application is continuation-in-part of co-pending Serial No. 689,013, hereinafter CIP-1, and 722,742, hereinafter CIP-2, which are now abandoned. both o f CIP-1 is a continuation-in-part o f Serial No. 570,973, hereinafter PARENT 1, now abandoned. CIP-1 and CIP-2 filed originally under great time pressure caused by impending publications which it was felt might jeopardize rights with respect to foreign filing. As a result, extensive discussions regarding inventorship performed prior to their filing and it was were not assumed incorrectly that the inventorship for CIP-1 and CIP-2 were the same as PARENT 1. Both CIP-1 and CIP-2 were joint inventions of personnel who were then employed by one or both of the California Institute of hereinafter CALTECH, and Applied Technology, Inc., hereinafter Biosystems, ABI. and both CALTECH bу the applications were assigned to originally named inventors. During the examination of

CIP-2, the Examiner's analysis was reviewed in detail by Dr. Michael Hunkapiller, one of the originally named inventors, who is an employee of ABI. As part Dr. Hunkapiller happened o f that review. to collaborate with a colleague at Applied Biosystems, Charles R. Connell. Dr. Connell, upon reviewing specification, realized that he too had been in the development of significant aspects of invention described therein, and made that fact known to Dr. Hunkapiller. That was approximately May, Although it was known previously that Dr. 1987. Connell had been involved i n the commercial implementation of the invention, the full extent of involvment in the early development of the his invention was not fully apprecaated until the Office Action caused a more critical review. Upon reviewing o f Dr. Connell's collaboration, it was evidence apparent that Dr. Connell was a co-inventor, at which Hunkapiller contacted Applied Biosystems' time Dr. patent attorney, Mr. Joseph H. Smith, to review the situation. Mr. Smith agreed that the evidence indicated that Dr. Connell was a co-inventor. Hence, Smith contacted CALTECH's patent attorney, Mr. Edward Ansell, on or about May 29, 1987, and described situation. Several discussions were the regarding the inventorship situation. However, a number of individuals were difficult to reach due to the summer break in the academic schedule and due to vacation schedules. Nevertheless, to avoid

implication of fraud on the Patent Office, CALTECH, as part of its response to the outstanding Office Action for CIP-2, informed the Patent Office of this third party claim by ABI on September 14, 1987. Further discussions ensued between CALTECH and ABI, and on 1987, the above-identified patent 7, October application was filed as a continuation-in-part of the parent cases CIP-1 AND CIP-2, with the Patent Office being informed at that time of the third party claim regarding inventorship by ABI. During the following months, CALTECH further reviewed the and ABI inventorship situation and resolved those issues. Following that resolution, CALTECH and ABI have been involved in negotiating a suitable licensing and marketing arrangement between themselves with regard to the technology. Those negotiations have now been completed, and a more complete claim structure for the instant case is near completion.

It is clear that the error in inventorship was inadvertent and occurred due to the time constraints in filing the above-described applications. Absolutely no deceptive intent was involved, and we support the addition of Charles R. Connell as a joint inventor on this application.

DECLARATION:

As an originally named inventor, I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that

these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of 1st Inventor Lloyd M. Smith
Inventor's signature ////////////////////////////////////
Residence 1115 Ambust Drave, Martisan, WI 53705
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Post Office Address SAME
Tout office Address Still
Full Name of 2nd Inventor Leroy E. Hood
Inventor's signature <u>terry 2. Hood</u> Date 9/14/88
Residence 1453 E. California, Pasadena, 91009
Citizenship United States of America
Post Office Address SAME
Full Name of 3rd Inventor Michael W. Hunkapiller
Inventor's signature Date
Residence 1333 Pebble Drive, San Carlos, CA 94070
Citizenship United States of America
Post Office Address SAME
Full Name of 4th Inventor Tim J. Hunkapiller
Inventor's signature For Almost Date 9/14/88
Residence 294 South Wilson #5, Pasadena, CA 91106
Citizenship_SAME
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit 128 Examiner C. Nucker

In re Application of: LLOYD M. SMITH ET AL

Case No. 148-120CIP3

Serial No.: 106,013 Filed: 10/7/87

For: AUTOMATED DNA SEQUENCING TECHNIQUE

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As an originally named inventor, I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that

these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of 1st Inventor Lloyd M. Smith	
Inventor's signature	Date
Residence	
Citizenship United States of America	
Post Office Address	
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Full Name of 2nd Inventor Leroy E. Hood	
Inventor's signature	Date
Residence 1453 E. California, Pasadena, 9100	9
Citizenship United States of America	
Post Office Address SAME	
Full Name of 3rd Inventor Michael W. Hunkapi	ller
Inventor's signature Michael W. Dunkapelle.	Date <u>8/27/148</u> 8
Residence 1333 Pebble Drive, San Carlos, CA	94070
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Full Name of 4th Inventor Tim J. Hunkapiller	
Inventor's signature	
Residence 294 South Wilson #5, Pasadena, CA	91106
Citizenship SAME	
Post Office Address	

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Joseph E. Mueth

700 S. Flower Street #2200 Los:Angeles, CA 90017

(name and telephone number)

Joseph E. Mueth

(213) 688-7507

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As a below	named inventor, I her	reby declare that:		,	
Hy residenc	ly residence, post office address and citizenship are as stated below next to my name;				
or an origi subject mat	am the original, final, first and joint ter which is claimed ED DNA SEQUENCING TE	inventor (if plur and for which a p	al names are listed	below) of the	
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the specifi	cation of which (chec		ached hereto. led on October 7,	1987	
•	•	Applic	ation Serial No	06,232	
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FOWER OF A	ATTORNEY: As a named inven nd transact all business in the Pa	tor, I hereby eppoint the fo tent and Trademark Office	ollowing attorney(s) and/or age connected therewith. (list name	ent(s) to prosecute this ne and regularition number)	
	E. Mueth, Reg. No. 20 H. Smith, Reg. No. 30	-			
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

full name of sole or first inventor Lloyd M. Smith		
	Dated: _	
Inventor's signature		Citizenship U.S.A.
Rosidence		_
Post Office Address		
rull name of 2nd joint inventor, if any Leroy E. Hood		
2nd Inventor's signature	Dated:	
2nd Inventor's signature	•	Citizenship U.S.A.
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Post Office Address SAME		
Full ness of 3rd joint inventor, if any Michael W. Hunkapille	er	
3rd inventor's signature Michael W. Hunkapoller	Dated:	8/27/1988
Residence 1333 Pebble Drive, San Carlos, CA 94070	_	Citizenship U.S.A.
Post Office Address SAME		
Full name of 4th joint inventor, if anyTim J. Hunkapiller		·
4th Inventor's signature	Dated:	
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Residence 294 South Wilson #3, Pasadena, ON 32100		
Post Office Address SAME		
Pull near of 5th joint inventor, if any Charles R. Connell		
Pull near of 5th foint inventor, it in R Commoll	Dated:	
Sth Inventor's signature ONAND R. COWNELL 167 King Street, Redwood City, CA 94062	_ ******	U.S.A.
167 King Street, Redwood City, CA 94062		
Post Office Address SAME		